



**CALIFORNIA STATE SCIENCE FAIR
2013 PROJECT SUMMARY**

Name(s) Mariah G. Cox	Project Number J1802
Project Title Oh, No! The Dryer Broke!	
Abstract Objectives/Goals My project was to see which would evaporate water faster, wind or radiant heat. I believe that the wind will evaporate water faster because the wind blows the water molecules apart. It also blows the humid air away. The heat just speeds the water molecules up. Methods/Materials I used a weather station with an anemometer to measure the wind speed of a fan. I used a thermometer to measure the heat of a radiant heater. I used three different speeds (4mph, 6.4kph), (7mph, 11.3kph), (9mph, 14.5kph) and temperatures (80F, 26.7C), (90F, 32.2C), (100F, 37.8C). I wet sponges with an equal amount of water and measured how long it took to dry them out. I also had a control that was separate from the wind and heat. Results On the two lower speeds and temperatures the fan evaporated the water faster. On the third trial, when the temperature was at 100F(37.8C), the heater dried the sponge faster, but not by much. Conclusions/Discussion My conclusion is that wind without heat will dry things quicker than mild heat alone. My hypothesis was correct. Best bet for evaporation is a combination of wind and heat. (My dryer!!)	
Summary Statement My project was to find out which causes faster evaporation, wind or radiant heat.	
Help Received My mother taught me how to make the spreadsheet and graph.	